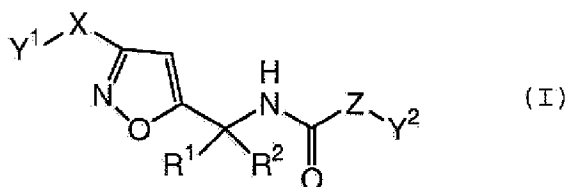


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

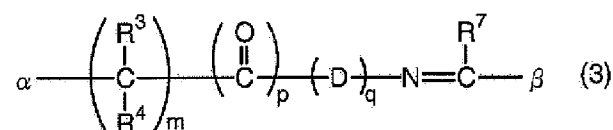
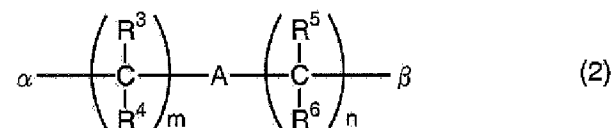
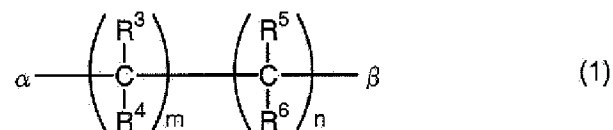
LISTING OF CLAIMS:

1. (previously presented): A substituted isoxazole alkylamine derivative represented by the formula (I):



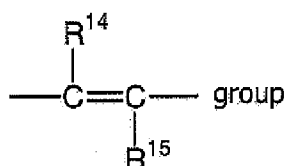
wherein R¹ and R² may be the same or different, and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkenyl group, a lower alkynyl group, a cycloalkyl group which may be substituted, a lower alkoxy group, a lower alkoxycarbonyl group, a lower alkylthio group, a halogen atom, a hydroxyl group, a carboxyl group, or a cyano group, or R¹ and R² may together form a cycloalkyl group which may be substituted;

X represents the following formula (1), (2), or (3):



wherein R^3 , R^4 , R^5 , and R^6 may be the same or different, and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkenyl group, a lower alkynyl group, a cycloalkyl group which may be substituted, a lower alkoxy group, a lower alkoxy carbonyl group, a lower alkylthio group, an amino group, a lower alkylamino group, a di(lower alkyl)amino group, a halogen atom, a hydroxyl group, or a cyano group, or each pair of R^3 and R^4 , and R^5 and R^6 may together form a cycloalkyl group which may be substituted;

A represents an oxygen atom, a sulfur atom, an $-S(O)-$ group, an $-S(O)_2-$ group, an $-NR^{12}-$ group wherein R^{12} represents a hydrogen atom or a lower alkyl group, a carbonyl group, an $-NH-CO-$ group, a $-CO-NH-$ group, a $-C\equiv C-$ group, an $-NH-CO-NH-$ group, an $-O-CONH-$ group, an $-HC=N-$ group, or a



wherein R^{14} and R^{15} each represent a hydrogen atom or a lower alkyl group;

m and n each represent 0 or an integer of 1 to 3;

p and q each represent 0 or 1;

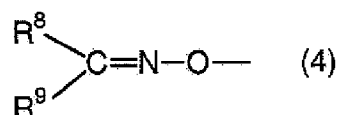
R^7 represents a hydrogen atom or a lower alkyl group; and

D represents an oxygen atom or an $-NH-$ group;

α binds to a Y^1 side, and β binds to an isoxazole moiety;

Y^1 represents a lower alkyl group which may be substituted, a lower alkenyl group which may be substituted, a lower alkynyl group which may be substituted, a cycloalkyl group which may be substituted, a lower cyclo alkenyl group which may be substituted, a phenyl group

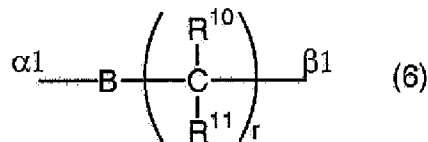
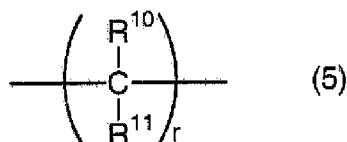
which may be substituted, a naphthyl group which may be substituted, a heteroaryl group which may be substituted, an aliphatic hetero ring which may be substituted, or the following formula (4):



wherein R^8 and R^9 each represent a hydrogen atom, a lower alkyl group which may be substituted, or a phenyl group which may be substituted, or R^8 and R^9 may together form a cycloalkyl group which may be substituted;

Y^2 represents a lower alkenyl group which may be substituted, a lower alkynyl group which may be substituted, a cycloalkyl group which may be substituted, a lower cyclo alkenyl group which may be substituted, a phenyl group which may be substituted, a naphthyl group which may be substituted, a heteroaryl group which may be substituted, or an aliphatic hetero ring which may be substituted;

Z represents a group denoted by the following formula (5) or (6):



wherein R^{10} and R^{11} may be the same or different, and each represent a hydrogen atom, a lower alkyl group which may be substituted, a cycloalkyl group which may be substituted, a lower alkoxy group, a lower alkoxy carbonyl group, a lower alkylthio group, an amino group, a lower alkylamino group, a di(lower alkyl)amino group, a halogen atom, a hydroxyl group, or a cyano group, or R^{10} and R^{11} may together form a cycloalkyl group which may be substituted;

r represents 0 or an integer of 1 to 3; and

B represents an oxygen atom, a sulfur atom, or an -NR¹³- group wherein R¹³ represents a hydrogen atom or a lower alkyl group;

any one of α_1 and β_1 may be bound to a Y² side;

provided that the following (1) to (3) are excluded:

(1) a compound in which X is a single bond (i.e. the case that each of m and n is 0 in the formula (1)) and Y¹ represents a 4-hydroxy-3,5-di-tert-butylphenyl group;

(2) a compound in which R¹ and R² represent hydrogen atoms, X is a single bond (i.e. the case that each of m and n is 0 in the formula (1)) and both Y¹ and Y² represent unsubstituted phenyl groups (2-1) when Z is a single bond (i.e. the case that r is 0 in the formula (5)) or (2-2) when Z is an NH group (i.e. the case that r=0 and B represents an -NH- group in the formula (6)); and

(3) a compound in which R¹ and R² represent hydrogen atoms, Z is a single bond (i.e. the case that r is 0 in the formula (5)) and Y² represents a 4-hydroxycinnolin-3-yl group which may be substituted.

2. (original): The substituted isoxazole alkylamine derivative according to claim 1, wherein R¹ and R² each independently represent a hydrogen atom or a lower alkyl group which may be substituted.

3. (withdrawn): The substituted isoxazole alkylamine derivative according to claim 2, wherein Z is an oxygen atom (i.e. the case that r is 0 and B is an oxygen atom in the formula

(6)), and Y^2 represents a phenyl group which may be substituted, a naphthyl group which may be substituted, or a cycloalkyl group which may be substituted.

4. (withdrawn): The substituted isoxazole alkylamine derivative according to claim 2, wherein Z represents an $-NR^{13}-$ group wherein R^{13} represents a hydrogen atom or a lower alkyl group (i.e. the case that r is 0 and B is an $-NR^{13}-$ group) and Y^2 represents a phenyl group which may be substituted, a naphthyl group which may be substituted, or a cycloalkyl group which may be substituted.

5. (original): The substituted isoxazole alkylamine derivative according to claim 2, wherein X and Z are single bonds (i.e. the case that m and n are 0 in the formula (1) and r is 0 in the formula (5)) and Y^2 represents a phenyl group which may be substituted, a naphthyl group which may be substituted, or a cycloalkyl group which may be substituted.

6. (original): The substituted isoxazole alkylamine derivative according to claim 2, wherein X represents a group represented by the formula (1) wherein R^3 , R^4 , R^5 , and R^6 may be the same or different and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkoxy group, a lower alkoxycarbonyl group, a halogen atom, or a cyano group, Y^2 represents a phenyl group which may be substituted, a naphthyl group which may be substituted, or a cycloalkyl group which may be substituted, and $m + n$ is 1, 2, or 3.

7. (withdrawn): The substituted isoxazole alkylamine derivative according to claim

2, wherein X represents a group represented by the formula (2) wherein R^3 , R^4 , R^5 , and R^6 may be the same or different and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkoxy group, a lower alkoxy carbonyl group, a halogen atom, or a cyano group, Y^2 represents a phenyl group which may be substituted, a naphthyl group which may be substituted, or a cycloalkyl group which may be substituted, n is 1 or 2, and $m + n$ is 1, 2, or 3.

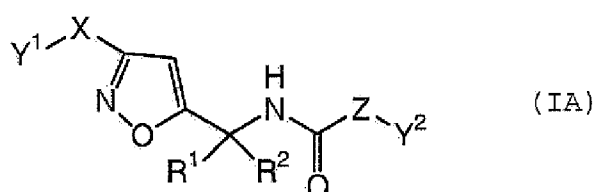
8. (withdrawn): The substituted isoxazole alkylamine derivative according to claim 2, wherein X represents a group represented by the formula (2) wherein R^3 , R^4 , R^5 , and R^6 may be the same or different and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkoxy group, a lower alkoxy carbonyl group, a halogen atom, or a cyano group, Y^2 represents a phenyl group which may be substituted, a naphthyl group which may be substituted, or a cycloalkyl group which may be substituted, n is 0, and m is 0, 1, or 2.

9. (withdrawn): The substituted isoxazole alkylamine derivative according to claim 2, wherein X represents a group represented by the formula (3) wherein R^3 and R^4 may be the same or different and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkoxy group, a halogen atom, or a cyano group, m represents 0, 1, or 2, and Y^2 represents a phenyl group which may be substituted, a naphthyl group which may be substituted, or a cycloalkyl group which may be substituted.

10. (previously presented): The substituted isoxazole alkylamine derivative according to claim 2, wherein Y^1 represents a methyl group substituted with a halogen atom, and X and Z

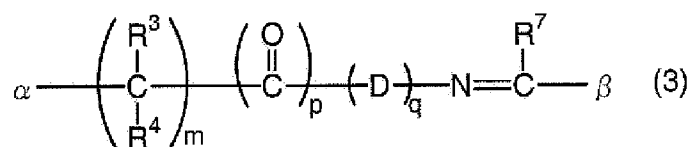
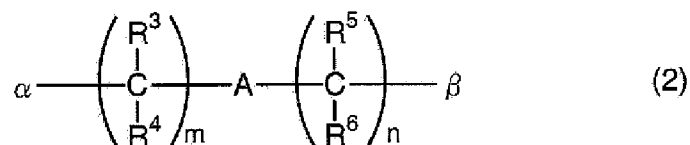
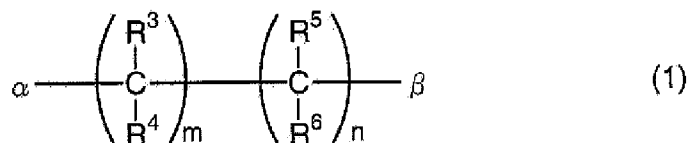
are each a single bond (i.e. the case that m and n are 0 in the formula (1) and r is 0 in the formula (5)).

11. (withdrawn): An agri-horticultural fungicide containing as an active ingredient a substituted isoxazole alkylamine derivative represented by the formula (IA):



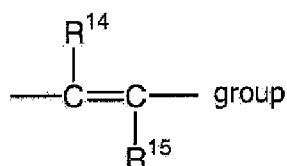
wherein R^1 and R^2 may be the same or different, and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkenyl group, a lower alkynyl group, a cycloalkyl group which may be substituted, a lower alkoxy group, a lower alkoxycarbonyl group, a lower alkylthio group, a halogen atom, a hydroxyl group, a carboxyl group, or a cyano group, or R^1 and R^2 may together form a cycloalkyl group which may be substituted;

X represents the following formula (1), (2), or (3):



wherein R^3 , R^4 , R^5 , and R^6 may be the same or different, and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkenyl group, a lower alkynyl group, a cycloalkyl group which may be substituted, a lower alkoxy group, a lower alkoxy carbonyl group, a lower alkylthio group, an amino group, a lower alkylamino group, a di(lower alkyl)amino group, a halogen atom, a hydroxyl group, or a cyano group, or each pair of R^3 and R^4 , and R^5 and R^6 may together form a cycloalkyl group which may be substituted;

A represents an oxygen atom, a sulfur atom, an $-S(O)-$ group, an $-S(O)_2-$ group, an $-NR^{12}-$ group wherein R^{12} represents a hydrogen atom or a lower alkyl group, a carbonyl group, an $-NH-CO-$ group, a $-CO-NH-$ group, a $-C\equiv C-$ group, an $-NH-CO-NH-$ group, an $-O-CONH-$ group, an $-HC=N-$ group, or a



wherein R^{14} and R^{15} each represent a hydrogen atom or a lower alkyl group;

m and n each represent 0 or an integer of 1 to 3;

p and q each represent 0 or 1;

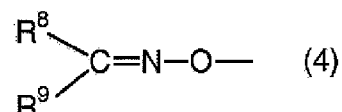
R^7 represents a hydrogen atom or a lower alkyl group; and

D represents an oxygen atom or an $-NH-$ group;

α binds to a Y^1 side, and β binds to an isoxazole moiety;

Y^1 represents a lower alkyl group which may be substituted, a lower alkenyl group which may be substituted, a lower alkynyl group which may be substituted, a cycloalkyl group which may be substituted, a lower cyclo alkenyl group which may be substituted, a phenyl group

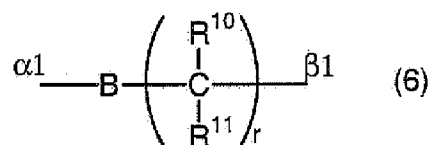
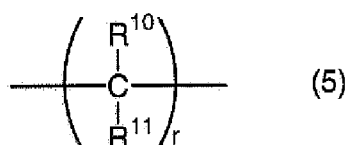
which may be substituted, a naphthyl group which may be substituted, a heteroaryl group which may be substituted, an aliphatic hetero ring which may be substituted, or the following formula (4):



wherein R^8 and R^9 each represent a hydrogen atom, a lower alkyl group which may be substituted, or a phenyl group which may be substituted, or R^8 and R^9 may together form a cycloalkyl group which may be substituted;

Y^2 represents a lower alkenyl group which may be substituted, a lower alkynyl group which may be substituted, a cycloalkyl group which may be substituted, a lower cyclo alkenyl group which may be substituted, a phenyl group which may be substituted, a naphthyl group which may be substituted, a heteroaryl group which may be substituted, or an aliphatic hetero ring which may be substituted;

Z represents a group represented by the following formula (5) or (6):



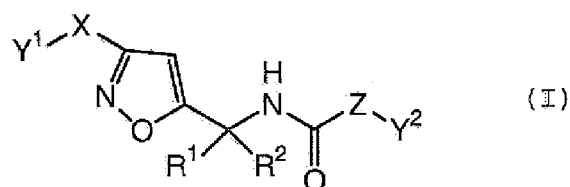
wherein R^{10} and R^{11} may be the same or different, and each represent a hydrogen atom, a lower alkyl group which may be substituted, a cycloalkyl group which may be substituted, a lower alkoxy group, a lower alkoxy carbonyl group, a lower alkylthio group, an amino group, a lower alkylamino group, a di(lower alkyl)amino group, a halogen atom, a hydroxyl group, or a cyano group, or R^{10} and R^{11} may together form a cycloalkyl group which may be substituted;

r represents 0 or an integer of 1 to 3; and

B represents an oxygen atom, a sulfur atom, or an $-NR^{13}-$ group wherein R^{13} represents a hydrogen atom or a lower alkyl group;

any one of $\alpha 1$ and $\beta 1$ may be bound to a Y^2 side.

12. (currently amended): A substituted isoxazole alkylamine derivative represented by the formula (I):



wherein R^1 and R^2 may be the same or different, and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkenyl group, a lower alkynyl group, a cycloalkyl group which may be substituted, a lower alkoxy group, a lower alkoxycarbonyl group, a lower alkylthio group, a halogen atom, a hydroxyl group, a carboxyl group, or a cyano group, or R^1 and R^2 may together form a cycloalkyl group which may be substituted;

X represents the following formula (1):



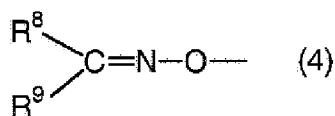
wherein R^3 , R^4 , R^5 , and R^6 may be the same or different, and each represent a hydrogen atom, a lower alkyl group which may be substituted, a lower alkenyl group, a lower alkynyl group, a cycloalkyl group which may be substituted, a lower alkoxy group, a lower alkoxycarbonyl group,

a lower alkylthio group, an amino group, a lower alkylamino group, a di(lower alkyl)amino group, a halogen atom, a hydroxyl group, or a cyano group, or each pair of R³ and R⁴, and R⁵ and R⁶ may together form a cycloalkyl group which may be substituted;

m and n each represent 0 or an integer of 1 to 3;

α binds to a Y¹ side, and β binds to an isoxazole moiety;

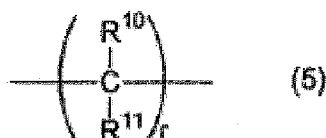
Y¹ represents a lower alkyl group which may be substituted, a lower alkenyl group which may be substituted, a lower alkynyl group which may be substituted, a cycloalkyl group which may be substituted, a lower cyclo alkenyl group which may be substituted, a phenyl group which may be substituted, a naphthyl group which may be substituted, a heteroaryl group which may be substituted, an aliphatic hetero ring which may be substituted, or the following formula (4):



wherein R⁸ and R⁹ each represent a hydrogen atom, a lower alkyl group which may be substituted, or a phenyl group which may be substituted, or R⁸ and R⁹ may together form a cycloalkyl group which may be substituted;

Y² represents a lower alkenyl group which may be substituted, a lower alkynyl group which may be substituted, a cycloalkyl group which may be substituted, a lower cyclo alkenyl group which may be substituted, a phenyl group which may be substituted, a naphthyl group which may be substituted, a heteroaryl group which may be substituted, or an aliphatic hetero ring which may be substituted;

Z represents a group denoted by the following formula (5):



wherein R^{10} and R^{11} may be the same or different, and each represent a hydrogen atom, a lower alkyl group which may be substituted, a cycloalkyl group which may be substituted, a lower alkoxy group, a lower alkoxycarbonyl group, a lower alkylthio group, an amino group, a lower alkylamino group, a di(lower alkyl)amino group, a halogen atom, a hydroxyl group, or a cyano group, or R^{10} and R^{11} may together form a cycloalkyl group which may be substituted;

r represents 0 or an integer of 1 to 3;

provided that the following (1) to (3) are excluded:

(1) a compound in which X is a single bond (i.e. the case that each of m and n is 0 in the formula (1)) and Y^1 represents a 4-hydroxy-3,5-di-tert-butylphenyl group;

(2) a compound in which R^1 and R^2 represent hydrogen atoms, X is a single bond (i.e. the case that each of m and n is 0 in the formula (1)) and both Y^1 and Y^2 represent unsubstituted phenyl groups when Z is a single bond (i.e. the case that r is 0 in the formula (5)); and

(3) a compound in which R^1 and R^2 represent hydrogen atoms, Z is a single bond (i.e. the case that r is 0 in the formula (5)) and Y^2 represents a 4-hydroxycinnolin-3-yl group which may be substituted,

wherein ~~a substituent of the substituted phenyl group which may be substituted, the substituted phenyloxy group, the substituted naphthyl group which may be substituted, or the substituted heteroaryl group which may be substituted, is may be substituted with~~ one or more

substituents selected from the group consisting of a lower alkyl group which may be substituted with a halogen atom or a lower alkoxy group; a lower alkenyl group which may be substituted; a lower alkynyl group which may be substituted; a lower alkoxy group which may be substituted with a halogen atom; a lower alkylthio group; a lower alkanesulfinyl group; a lower alkanesulfonyl group; an R^{16} -NHCO- group; an R^{16} -CONH- group wherein R^{16} represents a hydrogen atom or a lower alkyl group; an R^{17} -O-NHCO- group wherein R^{17} represents a lower alkyl group; an R^{18} -CO- group wherein R^{18} represents a hydrocarbon group which may be substituted with a halogen atom; a lower alkoxycarbonyl group; a carboxyl group; a cycloalkyl group which may be substituted; an amino group; a lower alkylamino group; a lower dialkylamino group; an R^{19} O-N=C(R^{20})- group wherein R^{19} represents a hydrogen atom or a lower alkyl group, and R^{20} represents a hydrogen atom, a lower alkyl group, or an amino group; an aliphatic heterocyclo ring group; a lower alkylcarbonylhydrazino group; a lower alkylloxycarbonylhydrazino group; a formyl group; an $H_2NN=C(R^{21})$ - group; an $R^{22}(O)CHNN=C(R^{21})$ - group wherein R^{21} and R^{22} each represent a hydrogen atom or a lower alkyl group; a hydroxyl group; a phenyl group which may be substituted; ~~a phenyloxy group which may be substituted~~; a naphthyl group which may be substituted; a heteroaryl group which may be substituted; a halogen atom; a cyano group; and a nitro group; and

wherein ~~a substituent of the substituted lower alkyl group which may be substituted, the substituted lower alkenyl group which may be substituted, the substituted lower alkynyl group which may be substituted, the substituted cycloalkyl group which may be substituted, the substituted lower cycloalkenyl group which may be substituted, the substituted lower alkoxy group or the substituted aliphatic hetero ring which may be substituted, is~~ may be substituted

with one or more substituents selected from the group consisting of a lower alkoxy group; a lower alkoxycarbonyl group; a halogen atom; a cyano group; a nitro group; a phenyl group which may be substituted; a lower acyl group; and a lower acyloxy group.

13. (currently amended): The substituted isoxazole alkylamine derivative according to claim 1, wherein ~~a substituent of the substituted-phenyl group which may be substituted, the substituted-phenyloxy group the substituted-naphthyl group which may be substituted, or the substituted-heteroaryl group which may be substituted, is~~ may be substituted with one or more substituents selected from the group consisting of a lower alkyl group which may be substituted with a halogen atom or a lower alkoxy group; a lower alkenyl group which may be substituted; a lower alkynyl group which may be substituted; a lower alkoxy group which may be substituted with a halogen atom; a lower alkylthio group; a lower alkanesulfinyl group; a lower alkanesulfonyl group; an R^{16} -NHCO- group; an R^{16} -CONH- group wherein R^{16} represents a hydrogen atom or a lower alkyl group; an R^{17} -O-NHCO- group wherein R^{17} represents a lower alkyl group; an R^{18} -CO- group wherein R^{18} represents a hydrocarbon group which may be substituted with a halogen atom; a lower alkoxycarbonyl group; a carboxyl group; a cycloalkyl group which may be substituted; an amino group; a lower alkylamino group; a lower dialkylamino group; an R^{19} O-N=C(R^{20})- group wherein R^{19} represents a hydrogen atom or a lower alkyl group, and R^{20} represents a hydrogen atom, a lower alkyl group, or an amino group; an aliphatic heterocyclo ring group; a lower alkylcarbonylhydrazino group; a lower alkyloxy carbonylhydrazino group; a formyl group; an $H_2NN=C(R^{21})$ - group; an $R^{22}(O)CHNN=C(R^{21})$ - group wherein R^{21} and R^{22} each represent a hydrogen atom or a lower

alkyl group; a hydroxyl group; a phenyl group which may be substituted; ~~a phenyloxy group which may be substituted;~~ a naphthyl group which may be substituted; a heteroaryl group which may be substituted; a halogen atom; a cyano group; and a nitro group; and

wherein ~~a substituent of the substituted lower alkyl group which may be substituted,~~ the ~~substituted lower alkenyl group which may be substituted,~~ the ~~substituted lower alkynyl group which may be substituted,~~ the ~~substituted cycloalkyl group which may be substituted,~~ the ~~lower substituted cycloalkenyl group which may be substituted,~~ the ~~substituted lower alkoxy group or the substituted aliphatic hetero ring which may be substituted,~~ ~~is may be substituted with one~~ or more substituents selected from the group consisting of a lower alkoxy group; a lower alkoxy carbonyl group; a halogen atom; a cyano group; a nitro group; a phenyl group which may be substituted; a lower acyl group; and a lower acyloxy group.